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JMS/CMF/emw 08/18/00

PATENT APPLICATION

Docket No.: 2037.2002-000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

plicant(s):

Richard M. Wyatt

lication No.:

09/559,190

Group:

2759

Filed:

April 27, 2000

Examiner: Not Yet Assigned

For:

Port Packet Queuing

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents,

Washington, D.C. 20231

Signature

Eileen M.Woodbury Typed or printed name of person signing certificate

TRANSMITTAL OF FORMAL DRAWINGS

Assistant Commissioner for Patents Washington, D.C., 20231

Sir:

Transmitted herewith are formal drawings, sheets 1/12 - 12/12, figures 1-11 for filing in the subject application.

Acceptance of the formal drawings is respectfully requested.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

Caroline M. Fleming

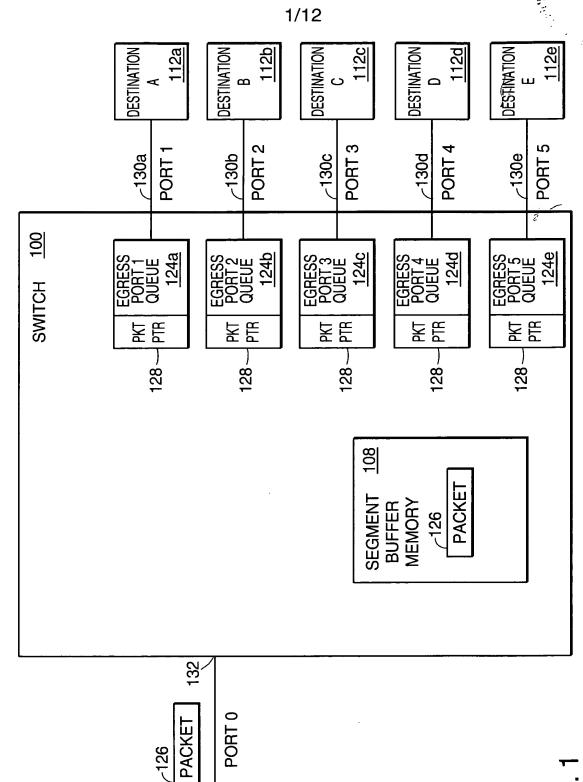
Registration No. 45,566

Telephone (781) 861-6240

Facsimile (781) 861-9540

Lexington, MA 02421-4799

Date: 8/18/00



-126

102

SOURCE

⋖

FIG. 1

PEQUEUE PKT PTR FROM PORT 5 QUEUE

EGRESS PORT 5

EGRESS PORT 4

FIG. 2

PORT 5

PORT 4

PORT 3

PORT 2

PORT 1

PORT 0

-202e

202a-

NGRESS

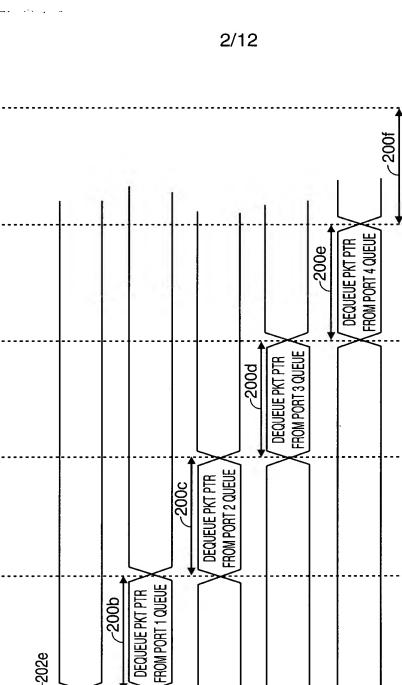
PORT 0

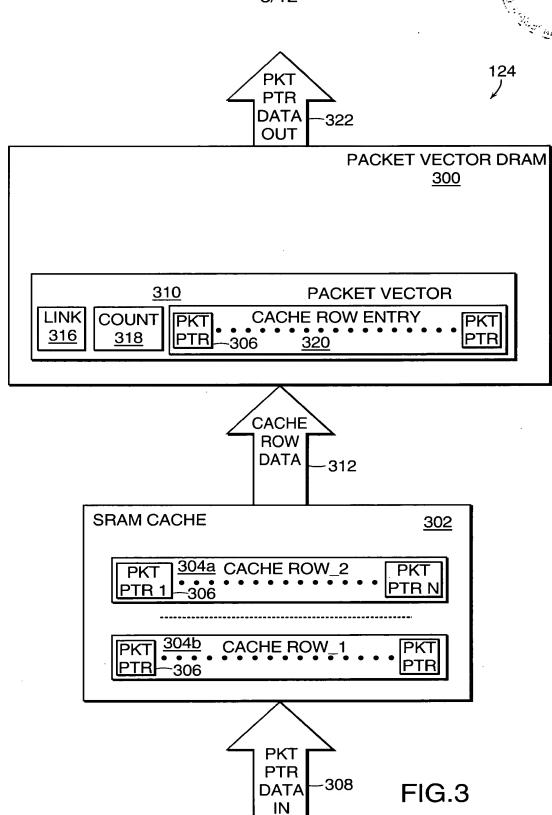
P4\\P5\

EGRESS PORT 1

EGRESS PORT 2

EGRESS PORT 3





09 |559,190 ··· FAFTSMAM 3/12 124 PKT **PTR** DATA 322 OUT PACKET VECTOR DRAM <u>300</u> <u>310</u> PACKET VECTOR CACHÉ ROW ENTRY LINK COUNT PKT 316 318 PTR PTR CACHE **ROW DATA** -312

SRAM/CACHE 302 304a CACHE ROW_2 PKT PTR N PTR 1 304b CACHE ROW_1 PKT PTR **PKT PTR** 308 DATA IN FIG.3 . ASS SUBCLASS

LUPAFISMAM

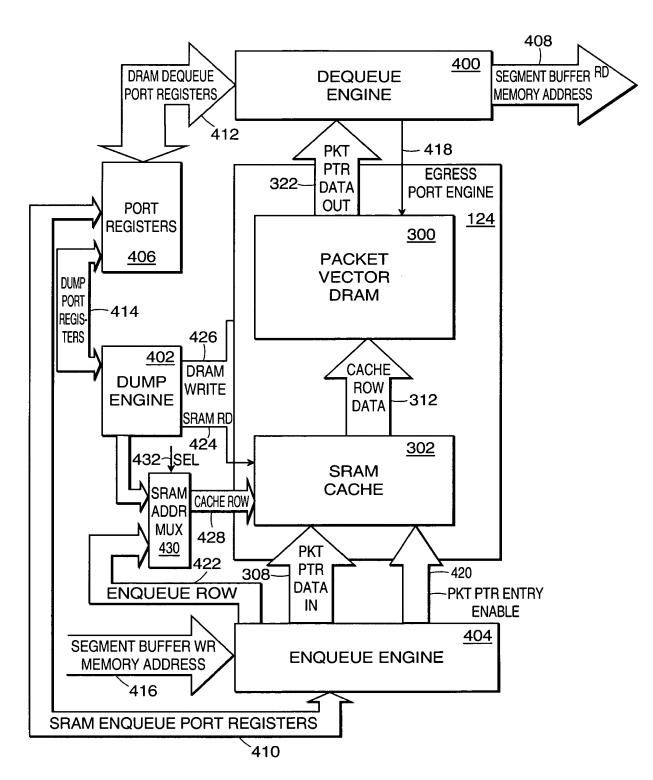


FIG. 4

5/12

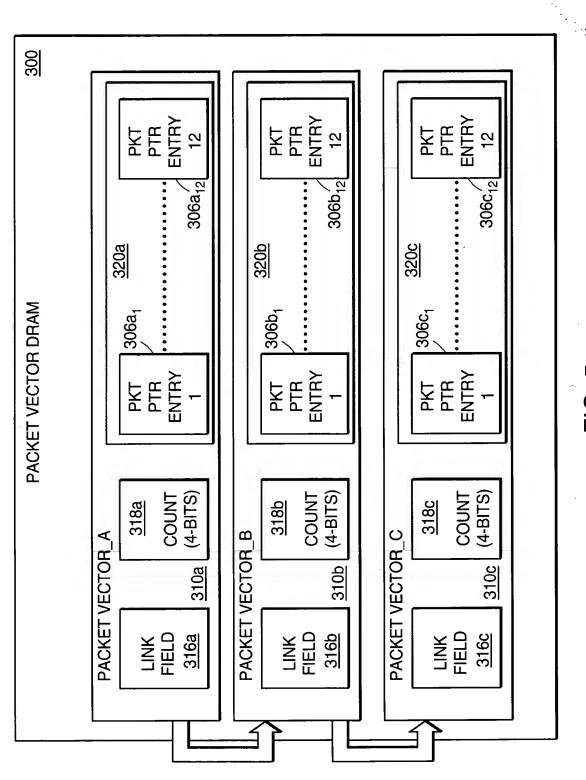


FIG. 5

E.F.G.

DATIFICATION

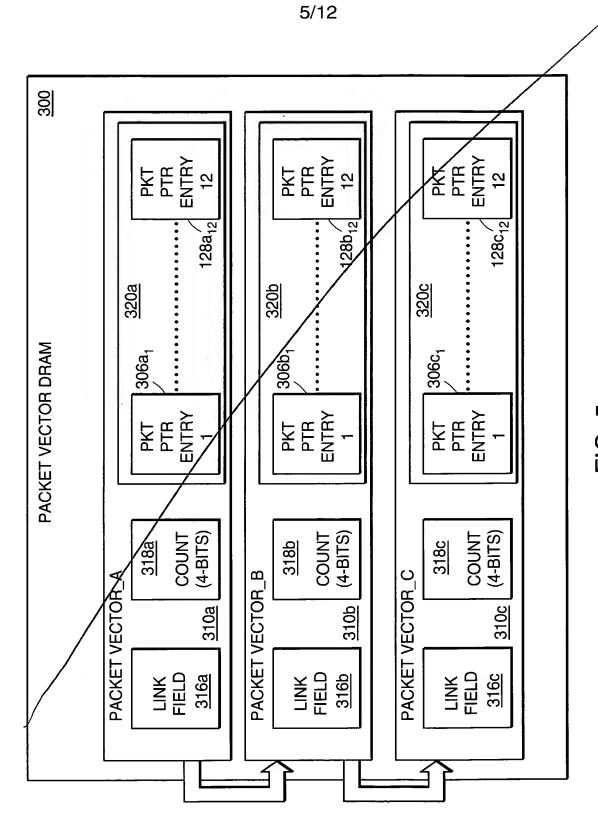
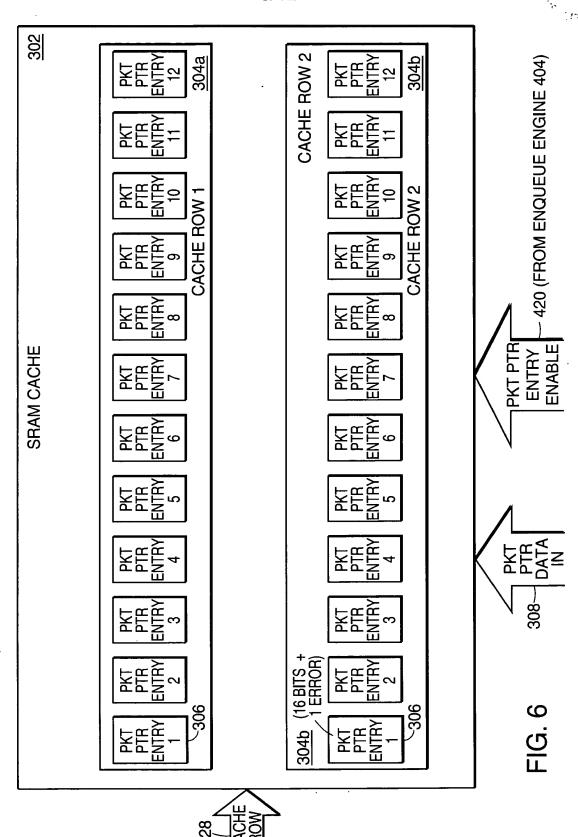


FIG. 5

THERE I I BUA

A-M-OVED (O.S. FIG. CLASS SUBCLASS

CHV-LEWON



406

CURRENT ENQUEUE
POINTER
714

NEXT ENQUEUE
POINTER
716

NUMBER OF
PACKET VECTORS
ON QUEUE
718

NO PACKET
VECTORS
720

CURRENT DEQUEUE
POINTER
722

NEXT DEQUEUE
PACKET POINTER

DRAM

PORT REGISTERS

<u>702</u>

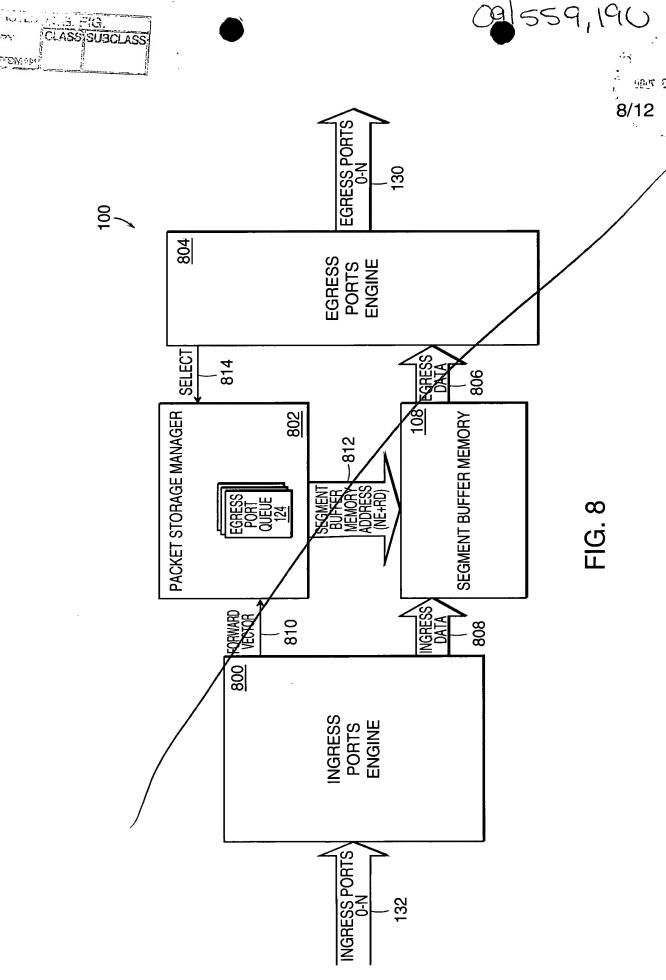
DUMP ROW NUMBER (1 OR 2) 704 **FILL ROW NUMBER** (1 OR 2) 706 PKT PTR ENTRY NUMBER (1 - 12)708 **CACHE FULL** 710 CACHE EMPTY 712 SRAM PORT REGISTERS <u>70</u>0

FIG. 7

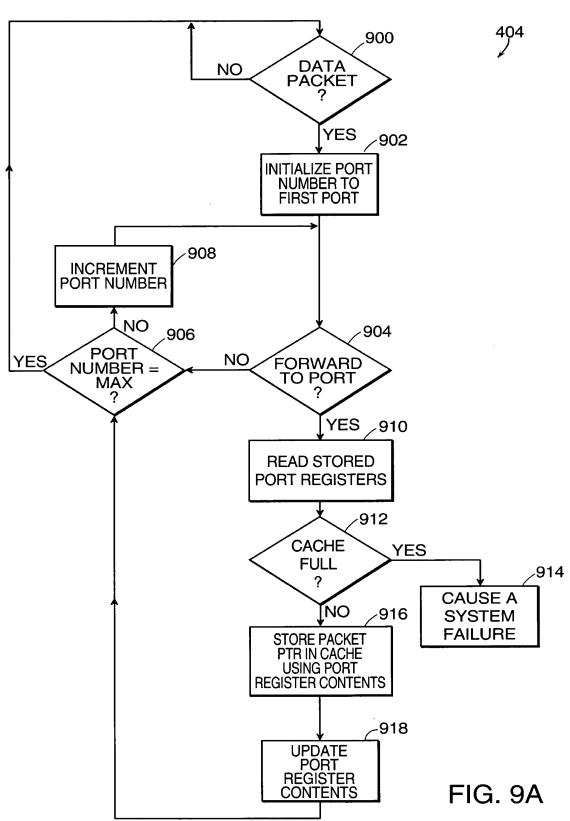
APPROVED C.G. FIG.
BY CLASS SUBCLASS EGRESS PORTS 0-N 130 6/ 804 EGRESS PORTS ENGINE SELECT 814 806 108 802 SEGMENT BUFFER MEMORY PACKET STORAGE MANAGER -812 SEGMENT BUFFER MEMORY ADDRESS NGRESS DATA FORWARD VECTOR 810 808 800 INGRESS PORTS ENGINE INGRESS PORTS 0-N 132

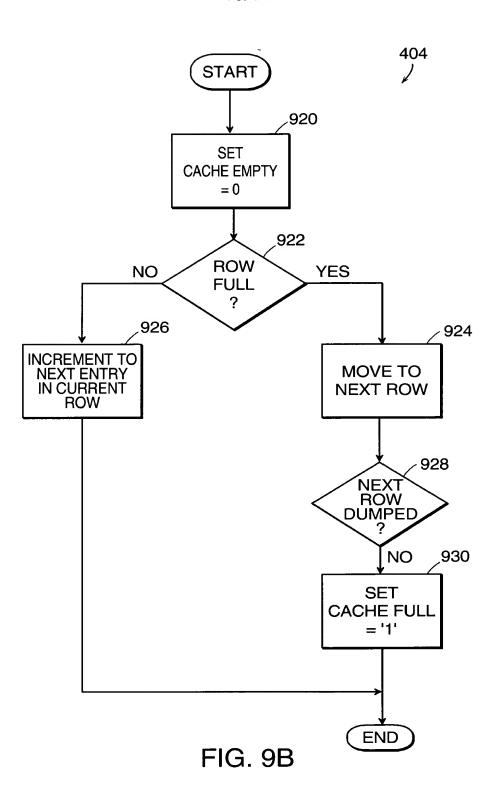
DRAFTSMAN

FIG. 8



PAFTEMORY







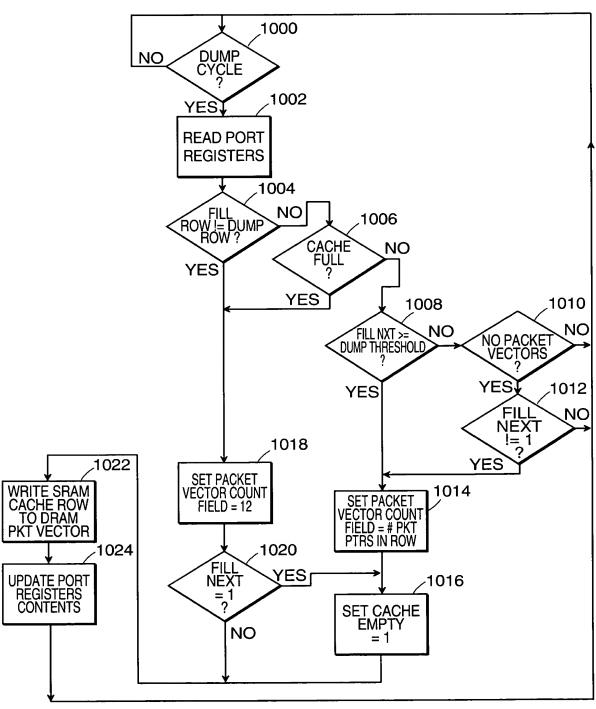


FIG. 10

AMP E 3 AMP



